



IFW16

## RAW SEQUENCE LISTING

DATE: 08/31/2004

PATENT APPLICATION: US/09/660,302E

TIME: 13:58:37

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\08312004\I660302E.raw

```

1 <110> APPLICANT: Universiteit Utrecht
2   Strous, Gerardus
3   Van Kerkhof, Petrus
4   Govers, Roland
6 <120> TITLE OF INVENTION: CONTROLLING AVAILABILITY OR ACTIVITY OF PROTEINS BY USE OF
PROTEASE
7   INHIBITORS OR RECEPTOR FRAGMENTS
9 <130> FILE REFERENCE: 2183-4525US
11 <140> CURRENT APPLICATION NUMBER: 09/660,302E
12 <141> CURRENT FILING DATE: 2000-09-12
14 <150> PRIOR APPLICATION NUMBER: PCT/NL99/00136
15 <151> PRIOR FILING DATE: 1999-03-12
17 <150> PRIOR APPLICATION NUMBER: EP98200799.9
18 <151> PRIOR FILING DATE: 1998-03-12
20 <160> NUMBER OF SEQ ID NOS: 51
22 <170> SOFTWARE: PatentIn version 3.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 8
26 <212> TYPE: PRT
27 <213> ORGANISM: Unknown
29 <220> FEATURE:
30 <221> NAME/KEY: BINDING
31 <222> LOCATION: (1)..(8)
32 <223> OTHER INFORMATION: synthetic peptide, Binding polypeptide motif
34 <220> FEATURE:
35 <221> NAME/KEY: UNSURE
36 <222> LOCATION: (1)..(1)
37 <223> OTHER INFORMATION: Xaa may be any amino acid
39 <220> FEATURE:
40 <221> NAME/KEY: UNSURE
41 <222> LOCATION: (5)..(5)
42 <223> OTHER INFORMATION: Xaa may be any amino acid
44 <220> FEATURE:
45 <221> NAME/KEY: UNSURE
46 <222> LOCATION: (6)..(6)
47 <223> OTHER INFORMATION: Xaa may be any amino acid
49 <220> FEATURE:
50 <221> NAME/KEY: UNSURE
51 <222> LOCATION: (8)..(8)
52 <223> OTHER INFORMATION: Xaa may be any amino acid
54 <400> SEQUENCE: 1
W--> 55 Xaa Glu Phe Ile Xaa Xaa Asp Xaa
56 1 5
58 <210> SEQ ID NO: 2

```

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```

59 <211> LENGTH: 12
60 <212> TYPE: PRT
61 <213> ORGANISM: Unknown
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Unsure, Growth hormone receptor binding motif, Binds to
hormone receptor
65     and ubiquitin
67 <400> SEQUENCE: 2
68 Asp Asp Ser Trp Val Glu Phe Ile Glu Leu Asp Ile
69 1             5             10
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 10
73 <212> TYPE: PRT
74 <213> ORGANISM: Unknown
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Unsure, Growth hormone receptor motif, Binds to hormone
receptor and
78     ubiquitin
80 <400> SEQUENCE: 3
81 Asp Ser Trp Val Glu Phe Ile Glu Leu Asp
82 1             5             10
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 129
86 <212> TYPE: PRT
87 <213> ORGANISM: Unknown
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Unsure, Growth hormone receptor motif, Up-regulates GH
activity
92 <400> SEQUENCE: 4
93 Ser Lys Gln Gln Arg Ile Lys Met Leu Ile Leu Pro Pro Val Pro Val
94 1             5             10             15
95 Pro Lys Ile Lys Gly Ile Asp Pro Asp Leu Leu Lys Glu Gly Lys Leu
96             20             25             30
97 Glu Glu Val Asn Thr Ile Leu Ala Ile His Asp Ser Tyr Lys Pro Glu
98             35             40             45
99 Phe His Ser Asp Asp Ser Trp Val Glu Phe Ile Glu Leu Asp Ile Asp
100            50             55             60
101 Glu Pro Asp Glu Lys Thr Glu Glu Ser Asp Thr Asp Leu Leu Ser Ser
102 65             70             75             80
103 Asp His Glu Lys Ser His Ser Asn Leu Gly Val Lys Asp Gly Asp Ser
104             85             90             95
105 Gly Arg Thr Ser Cys Cys Glu Pro Asp Ile Leu Glu Thr Asp Phe Asn
106            100            105            110
107 Ala Asn Asp Ile His Glu Gly Thr Ser Glu Val Ala Gln Pro Gln Arg
108            115            120            125
109 Leu
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 38
113 <212> TYPE: PRT
114 <213> ORGANISM: Unknown
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Unsure, Derived from protein receptor, Up-regulates GH
activity

```

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```

119 <400> SEQUENCE: 5
120 Lys Asp Gly Asp Ser Gly Arg Thr Ser Cys Cys Glu Pro Asp Ile Leu
121 1          5          10          15
122 Glu Thr Asp Phe Asn Ala Asn Phe Ile His Glu Gly Thr Ser Glu Val
123          20          25          30
124 Ala Gln Pro Gln Arg Leu
125          35
127 <210> SEQ ID NO: 6
128 <211> LENGTH: 10
129 <212> TYPE: PRT
130 <213> ORGANISM: Unknown
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Unsure, Glut4 Ins-regulated glucose transporter binding
motif, Binds to
134          ubiquitin/proteasome system binding site
136 <400> SEQUENCE: 6
137 Thr Glu Leu Glu Tyr Leu Gly Pro Asp Glu
138 1          5          10
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 7
142 <212> TYPE: PRT
143 <213> ORGANISM: Unknown
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Unsure, Binding poly-peptide motif, Binds to
ubiquitin/proteasome system
147          binding site
149 <400> SEQUENCE: 7
150 Cys Glu Glu Asp Phe Tyr Arg
151 1          5
153 <210> SEQ ID NO: 8
154 <211> LENGTH: 10
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens (human) or Lepus unknown species (rabbit)
158 <220> FEATURE:
159 <223> OTHER INFORMATION: GHR sequence
161 <400> SEQUENCE: 8
162 Ser Trp Val Glu Phe Ile Glu Leu Asp Ile
163 1          5          10
165 <210> SEQ ID NO: 9
166 <211> LENGTH: 10
167 <212> TYPE: PRT
168 <213> ORGANISM: Gallus gallus (chicken)
170 <220> FEATURE:
171 <223> OTHER INFORMATION: GHR
173 <400> SEQUENCE: 9
174 Leu Trp Val Glu Phe Ile Glu Leu Asp Ile
175 1          5          10
177 <210> SEQ ID NO: 10
178 <211> LENGTH: 10
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens (human)

```

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```

182 <220> FEATURE:
183 <223> OTHER INFORMATION: prolactin receptor
185 <400> SEQUENCE: 10
186 Leu Leu Val Glu Tyr Leu Glu Val Asp Asp
187 1          5          10
189 <210> SEQ ID NO: 11
190 <211> LENGTH: 10
191 <212> TYPE: PRT
192 <213> ORGANISM: Mus musculus (mouse), Lepus unknown species (rabbit), or Rattus
unknown
W--> 193 species (rat)
195 <220> FEATURE:
196 <223> OTHER INFORMATION: prolactin receptor
198 <400> SEQUENCE: 11
199 Leu Leu Val Glu Phe Leu Glu Asn Asp Asp
200 1          5          10
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 10
204 <212> TYPE: PRT
205 <213> ORGANISM: Unknown
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Unsure, vertebrate skeletal muscle
210 <400> SEQUENCE: 12
211 Asp Asn Val Asp Tyr Leu Thr Arg Asp Trp
212 1          5          10
214 <210> SEQ ID NO: 13
215 <211> LENGTH: 10
216 <212> TYPE: PRT
217 <213> ORGANISM: Unknown
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Unsure, FGF Receptor Family
222 <400> SEQUENCE: 13
223 Gln Ala Ala Glu Tyr Leu Arg Ser Glu Thr
224 1          5          10
226 <210> SEQ ID NO: 14
227 <211> LENGTH: 10
228 <212> TYPE: PRT
229 <213> ORGANISM: Unknown
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Unsure, Transmembrane receptor sex precursor
234 <400> SEQUENCE: 14
235 Ile Asp Ala Glu Tyr Ile Ser Ala Glu Arg
236 1          5          10
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 10
240 <212> TYPE: PRT
241 <213> ORGANISM: Unknown
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Unsure, IgE Receptor
246 <400> SEQUENCE: 15

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```

247 Leu Lys Gly Glu Phe Ile Trp Val Asp Gly
248 1          5          10
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 10
252 <212> TYPE: PRT
253 <213> ORGANISM: Unknown
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Unsure, ANGIOTENSIN CONVERTING ENZYME
258 <400> SEQUENCE: 16
259 Tyr Gly Ser Glu Tyr Ile Asn Leu Asp Gly
260 1          5          10
262 <210> SEQ ID NO: 17
263 <211> LENGTH: 10
264 <212> TYPE: PRT
265 <213> ORGANISM: Unknown
267 <220> FEATURE:
268 <223> OTHER INFORMATION: Unsure, POTASSIUM CHANNEL IRK
270 <400> SEQUENCE: 17
271 Ser Glu Gly Glu Tyr Ile Pro Leu Asp Gln
272 1          5          10
274 <210> SEQ ID NO: 18
275 <211> LENGTH: 10
276 <212> TYPE: PRT
277 <213> ORGANISM: Unknown
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Unsure, PDGF RECEPTOR ALPHA-CHAIN
282 <400> SEQUENCE: 18
283 Asp Gly His Glu Tyr Ile Tyr Val Asp Pro
284 1          5          10
286 <210> SEQ ID NO: 19
287 <211> LENGTH: 10
288 <212> TYPE: PRT
289 <213> ORGANISM: Unknown
291 <220> FEATURE:
292 <223> OTHER INFORMATION: Unsure, PDGF RECEPTOR BETA-CHAIN
294 <400> SEQUENCE: 19
295 Asp Gly His Glu Tyr Ile Tyr Val Asp Pro
296 1          5          10
298 <210> SEQ ID NO: 20
299 <211> LENGTH: 10
300 <212> TYPE: PRT
301 <213> ORGANISM: Homo sapiens (human), Lepus unknown species (rabbit), or Rattus
unknown
W--> 302 species (rat)
304 <220> FEATURE:
305 <223> OTHER INFORMATION: Ca++ -channel
307 <400> SEQUENCE: 20
308 Asp Asn Phe Glu Tyr Leu Thr Arg Asp Ser
309 1          5          10
311 <210> SEQ ID NO: 21

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/660,302E

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Input Set : A:\pto.lm.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,5,6,8

Seq#:50; Xaa Pos. 4

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 64

Seq#:7; Line(s) 146

**VERIFICATION SUMMARY**

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Input Set : **A:\pto.lm.txt**

Output Set: **N:\CRF4\08312004\I660302E.raw**

L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:193 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:  
L:302 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:  
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0